

058820064NPUS01.ST25.txt
SEQUENCE LISTING

<110> Protein Design Labs, Inc.
Landolfi, et al.

<120> Amphiregulin Antibodies and Their Use to Treat Cancer and Psoriasis

<130> 05882.0064.NPUS01

<160> 39

<170> PatentIn version 3.2

<210> 1
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<212> PRT
<213> homo sapiens

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Ile Leu Gly Ser Gly His Tyr Ala Ala Gly Leu Asp Leu Asn Asp Thr
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Tyr Ser Gly Lys Arg Glu Pro Phe Ser Gly Asp His Ser Ala Asp Gly
35 40 45

Phe Glu Val Thr Ser Arg Ser Glu Met Ser Ser Gly Ser Glu Ile Ser
50 55 60

Pro Val Ser Glu Met Pro Ser Ser Ser Glu Pro Ser Ser Gly Ala Asp
65 70 75 80

Tyr Asp Tyr Ser Glu Glu Tyr Asp Asn Glu Pro Gln Ile Pro Gly Tyr
85 90 95

Ile Val Asp Asp Ser Val Arg Val Glu Gln Val Val Lys Pro Pro Gln
100 105 110

Asn Lys Thr Glu Ser Glu Asn Thr Ser Asp Lys Pro Lys Arg Lys Lys
115 120 125

Lys Gly Gly Lys Asn Gly Lys Asn Arg Arg Asn Arg Lys Lys Lys Asn
130 135 140

Pro Cys Asn Ala Glu Phe Gln Asn Phe Cys Ile His Gly Glu Cys Lys
145 150 155 160

Tyr Ile Glu His Leu Glu Ala Val Thr Cys Lys Cys Gln Gln Glu Tyr
165 170 175

Phe Gly Glu Arg Cys Gly Glu Lys Ser Met Lys Thr His Ser Met Ile
180 185 190

Asp Ser Ser Leu Ser Lys Ile Ala Leu Ala Ala Ile Ala Ala Phe Met
195 200 205

Ser Ala Val Ile Leu Thr Ala Val Ala Val Ile Thr Val Gln Leu Arg
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Asn Met Tyr Trp Val Lys Gln Ser His Gly Lys Ser Leu Glu Trp Ile
35 40 45

Gly Tyr Ile Asp Pro Tyr Tyr Gly Asp Pro Gly Tyr Ser Gln Lys Phe
50 55 60

Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr
65 70 75 80

Met His Leu Asn Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Arg Gly Asn Phe Pro Tyr Tyr Phe Asp Tyr Trp Gly Gln Gly
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Leu Ser Trp Phe Gln Gln Lys Pro Gly Lys Ser Pro Lys Thr Leu Ile
 35 40 45

Tyr Arg Ala Asn Arg Leu Val Asp Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

Ser Gly Ser Gly Gln Asp Tyr Ser Leu Thr Ile Ser Ser Leu Glu Tyr
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Glu Asp Met Gly Ile Tyr Tyr Cys Leu Gln Tyr Asp Glu Phe Pro Tyr
 85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
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Ser Val Lys Leu Ser Cys Thr Ala Ser Gly Phe Asn Ile Lys Asp Tyr
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Tyr Ile His Trp Val Lys Gln Arg Pro Glu Gln Gly Leu Glu Trp Ile
 35 40 45

Gly Cys Ile Asp Pro Glu Asn Gly Asp Thr Glu Tyr Ala Pro Asn Phe
 50 55 60

Gln Gly Arg Ala Thr Met Thr Ala Asp Thr Ser Ser Asn Thr Ala Tyr
 65 70 75 80

Leu Gln Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Tyr Gly Gly Thr Ile Thr Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val
 100 105 110

Thr Val Ser Ala
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Asn Ser Ala Asn Trp Val Gln Glu Lys Pro Asp His Leu Phe Thr Gly
 35 40 45

Leu Ile Gly Gly Thr Ile Asn Arg Val Pro Gly Val Pro Ala Arg Phe
 50 55 60

Ser Gly Ser Leu Ile Gly Asp Lys Ala Ala Leu Thr Ile Thr Gly Ala
 65 70 75 80

Gln Thr Glu Asp Glu Ala Ile Tyr Phe Cys Ala Leu Trp Tyr Ser Asn
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tgcaaggctt ctggttatgc attcactaac tacaacatgt actgggtgaa gcagagccat 180
ggaaagagcc ttgagtggat tggatatatt gatccttact atggtgatcc tggctacagc 240
cagaagttca agggcaaggc cacattgact gttgacaagt cctccagcac agcctacatg 300
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Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe
35 40 45

Thr Asn Tyr Asn Met Tyr Trp Val Lys Gln Ser His Gly Lys Ser Leu
50 55 60

Glu Trp Ile Gly Tyr Ile Asp Pro Tyr Tyr Gly Asp Pro Gly Tyr Ser
65 70 75 80

Gln Lys Phe Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser
85 90 95

Thr Ala Tyr Met His Leu Asn Ser Leu Thr Ser Glu Asp Ser Ala Val
100 105 110

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Gly Gln Gly Thr Thr Leu Thr Val Ser Ser
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atcacttgca aggcgagtc ggacattaat agctatttaa gctggttcca gcagaaacca 180
gggaaatctc ctaagaccct gatctatcgt gcaaacagat tggtagatgg ggtcccatca 240
aggttcagtg gcagtggatc tgggcaagat tattctctca ccatcagcag cctggagtat 300
gaagatatgg gaatttatta ttgtctacag tatgatgagt ttccgtacac gttcggaggg 360
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Gly Ile Lys Cys Asp Ile Lys Met Thr Gln Ser Pro Ser Ser Met Tyr
20 25 30

Ala Ser Leu Gly Glu Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp
35 40 45

Ile Asn Ser Tyr Leu Ser Trp Phe Gln Gln Lys Pro Gly Lys Ser Pro
50 55 60

Lys Thr Leu Ile Tyr Arg Ala Asn Arg Leu Val Asp Gly Val Pro Ser
65 70 75 80

Arg Phe Ser Gly Ser Gly Ser Gly Gln Asp Tyr Ser Leu Thr Ile Ser
85 90 95

Ser Leu Glu Tyr Glu Asp Met Gly Ile Tyr Tyr Cys Leu Gln Tyr Asp
100 105 110

Glu Phe Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
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Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
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Ser Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Ala Phe Thr Asn Tyr
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Asn Met Tyr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
35 40 45

Gly Tyr Ile Asp Pro Tyr Tyr Gly Asp Pro Gly Tyr Ser Gln Lys Phe
50 55 60

Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Arg Gly Asn Phe Pro Tyr Tyr Phe Asp Tyr Trp Gly Gln Gly
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Thr Leu Val Thr Val Ser Ser
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 35 40 45

Gly Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 50 55 60

Xaa Xaa Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Thr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Trp Gly Gln Gly
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Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Ile Asn Ser Tyr
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Leu Ser Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Lys Thr Leu Ile
 35 40 45

Tyr Arg Ala Asn Arg Leu Val Asp Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

Ser Gly Ser Gly Gln Asp Tyr Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Tyr Asp Glu Phe Pro Tyr
 85 90 95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105

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Asp Arg Val Thr Ile Thr Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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Xaa Xaa Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Lys Ser Leu Ile
 35 40 45

Tyr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 85 90 95

Xaa Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
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 tgaaaatatc ctgcaaggtt tctgggttatg cattcactaa ctacaacatg tattgggtga 180
 ggcaggcccc tggaaagggc cttgagtggg ttggatatat tgatccttac tatggtgatc 240
 ctggctacag ccagaagttc aagggcaagg ccacattgac tgttgacaag tccaccagca 300
 cagcctacat ggagctcagc agcctgaggt ctgaggacac tgcagtctat tactgtgcaa 360
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 20 25 30
 Pro Gly Ala Ser Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Ala Phe
 35 40 45
 Thr Asn Tyr Asn Met Tyr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
 50 55 60
 Glu Trp Ile Gly Tyr Ile Asp Pro Tyr Tyr Gly Asp Pro Gly Tyr Ser
 65 70 75 80
 Gln Lys Phe Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Thr Ser
 85 90 95
 Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val
 100 105 110

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Tyr Tyr Cys Ala Arg Arg Gly Asn Phe Pro Tyr Tyr Phe Asp Tyr Trp
115 120 125

Gly Gln Gly Thr Leu Val Thr Val Ser Ser
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acagggtcac tatcacttgc aaagcaagtc aggacattaa tagctattta agctggttcc 180
agcagaaacc agggaaagct cctaagaccc tgatctatcg tgcaaacaga ttggtagatg 240
gggtcccatc aagattcagt ggcagtggat ctgggcaaga ttatactctc accatcagta 300
gcctgcagcc tgaggatttc gcaacttatt attgtctaca gtatgatgag tttccgtaca 360
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Gly Ile Lys Cys Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser
20 25 30

Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp
35 40 45

Ile Asn Ser Tyr Leu Ser Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro
50 55 60

Lys Thr Leu Ile Tyr Arg Ala Asn Arg Leu Val Asp Gly Val Pro Ser
65 70 75 80

Arg Phe Ser Gly Ser Gly Ser Gly Gln Asp Tyr Thr Leu Thr Ile Ser
 85 90 95

Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Tyr Asp
 100 105 110

Glu Phe Pro Tyr Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 115 120 125

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 caggtgtcca ctctg 75

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 aacatgtatt gggtg 75

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 caatacatgt tgtagttag 79

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 acattgac 68

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 tcaatgtggc cttgcccttg 80

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 actactttga ctactgggg 79

<210> 27
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 cagtagtcaa agtagtacg 79

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 <213> Artificial

 <220>
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<210> 30
 <211> 71
 <212> DNA
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 gaaaccagag caac 74

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 ttaatagc 68

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 gtcctgactt gc 72

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 <212> DNA
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 attcagtggc agtggatc 78

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gtgtacggaa ac 72

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<220>

<223> Oligonucleotide

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ctagccacgc gtccaccatg 20

<210> 39

<211> 19

<212> DNA

<213> Artificial

<220>

<223> Oligonucleotide

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